Τ	Application No.	Applicant(s)
Notice of Allowability		
	09/896,136 Examiner	LIM ET AL. Art Unit
	Dwin M Craig	2123
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-1 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	opears on the cover sheet with IS (OR REMAINS) CLOSED in t 85) or other appropriate commun RIGHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to 1/21/2005.		<u>.</u>
2. The allowed claim(s) is/are <u>1-32</u> .		
3. \boxtimes The drawings filed on <u>1-16-2002</u> are accepted by the Ex	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents head Copies of the priority documents head. 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which (
6. CORRECTED DRAWINGS (as "replacement sheets") r	must be submitted.	
(a) including changes required by the Notice of Draftsp		(PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examin 		n the Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such		
7. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Info	rmal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-94		nmary (PTO-413), lail Date
3. Information Disclosure Statements (PTO-1449 or PTO/S		mendment/Comment
Paper No./Mail Date <u>3/24/2005</u> 4. ☐ Examiner's Comment Regarding Requirement for Depos	sit 8. ⊠ Examiner's S	tatement of Reasons for Allowance
of Biological Material	9. Other	1

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DETAILED ACTION

AND

REASONS FOR ALLOWANCE

- 1. Claims 1-32 are allowed.
- 2. Claims 33-50 are cancelled.
- 3. Regarding the Applicant's amendment to the abstract.

The Examiner thanks the Applicant's for amending the abstract and withdraws the objection.

4. Regarding the Applicant's amendment to the specification to remedy the improper incorporation by reference of the patent publication numbers and the issued patent numbers.

The Examiner thanks the Applicant for amending the specification and withdraws the objection to the specification.

5. Regarding the Applicant's response to the 35 U.S.C. 101 Utility rejections.

The Examiner thanks the Applicant for amending the current claim language and withdraws the 35 U.S.C. 101 rejections regarding non-statutory subject matter.

6. Regarding the Applicant's response to the 35 U.S.C. 112 second paragraph rejections of claims 2, 3 and 11.

The Examiner has found Applicant arguments to be persuasive and withdraws the 35 U.S.C. 112 rejections of claims 2, 3 and 11.

Reasons for Allowance

7. The following is an examiner's statement of reasons for allowance: The following limitations in combination with other limitations are not anticipated or made obvious by the prior

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art. (using independent claim 19 as an example), "defining a surface bounding said second system; identifying a subset of the plurality of n-dimensional simplices of said first mesh that are intersected by said surface; and" in combination with "modifying the identified subset of the plurality of n-dimensional simples to adapt said second mesh such that it comprises said second mesh and a third mesh" The following is noted by the Examiner, Applicant has argued in the 1/21/2005 response that (page 15 of 16) "As such, "impose a fine scale unstructured grid" does not inherently require selecting a region and identifying and breaking mesh segments." The Examiner notes that Applicant's claim language requires that when Applicant's mesh is adapting to another mesh it is required that one of the plurality of mesh triangles be broken. The Examiner notes that in U.S. Patent 6,366,279 Gorman is disclosed the teaching of breaking triangle mesh elements, (Col. 3 lines 45-64) "The cycles of the dual graph 208 are then broken, as shown in Fig. 2c." The Examiner notes that in U.S. Patent 6,018,497 Gunasekera is disclosed triangle mesh elements (Figure 20), and a first mesh and a second mesh and a third mesh (Figure 23), however, the Examiner has found no motivation to combine the teachings of the cited references as they are not directed towards solving the same problem. Therefore, Applicant's arguments, in combination with the instant amendments to the claims have made the presented claims neither anticipated nor obvious over the art.

7.1 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 8. Claims 1-32 are allowed. Claims 33-50 are cancelled.
- 8.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on (571)272-3716. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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